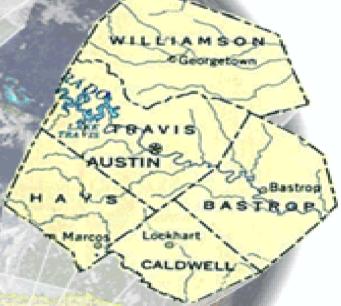
The Central Texas Sustainability Indicators Project: History, Practice and Prospects

Dr. Bob Paterson

Co-Director of the Center for Sustainable Development, The University of Texas at Austin Associate Dean for Research, The School of Architecture and Planning, UT-Austin



Sustainability Indicators Project



of Central Texas

Bastop, Caldwell, Hays,

Travis, and Williamson Counties

http://www.centex-indicators.org/

Overview

- What led up to the SIP?
- How did we do it?
- How were stakeholders engaged?
- Lessons Learned? Problems and opportunities?
- What Impacts can be associated with the effort?
- Next Steps Linking SIP to Envision Central Texas and Becoming More Relevant...







Mounting Regional Concern and Calls for Action: But Always on Parallel Tracks

- 1990 Green Builder Program (COA)
- 1990 AIA R/UDAT (Austin AIA/DAA)
- 1992 UNEP Earth Summit Award
- 1994 Portland-Austin Teleconference
 - Urban Consortium (UT-PST Cities)
- 1995 Community Vision Project
 - Capital Metro, UT-CRP, COA
- ULI Strategic Choices Conference (1995)
- 22 County Regional Conference I-35
 Corridor Council (1998) Austin-San Ant.



Significant Events

- 1996 COA Sustainability Officer
- 1998 GAC's ICF Kaiser Report on Austin's Economic Future
 - Sustainable Community Development
 - INCOME AND OPPORTUNITY GAPS MUST BE CLOSED
 - PROTECT AND ENHANCE
 ENVIRONMENTAL CAPITAL AND
 AMENITIES

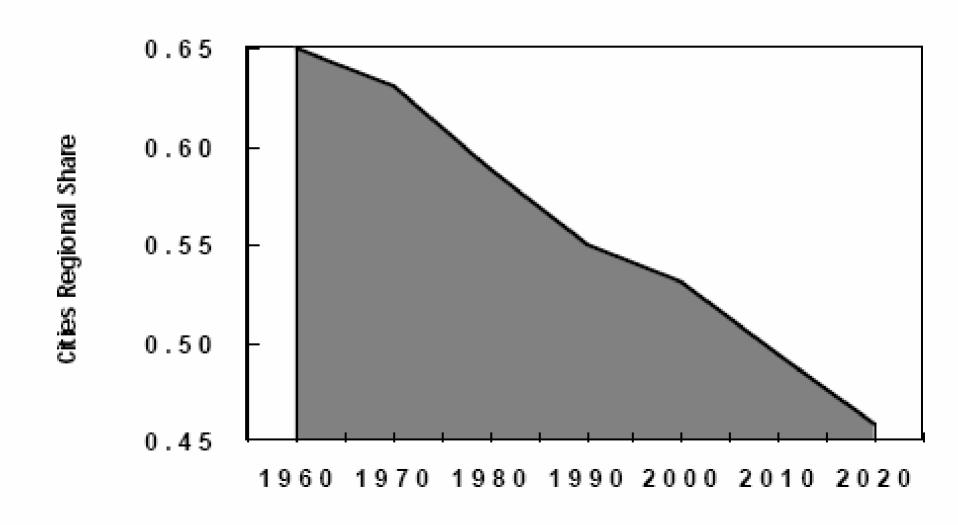


A Tale of Two Futures

Building a Sustainable Community

Central City Decline....

City's Share of the Region



Population Density and Urban Sprawl

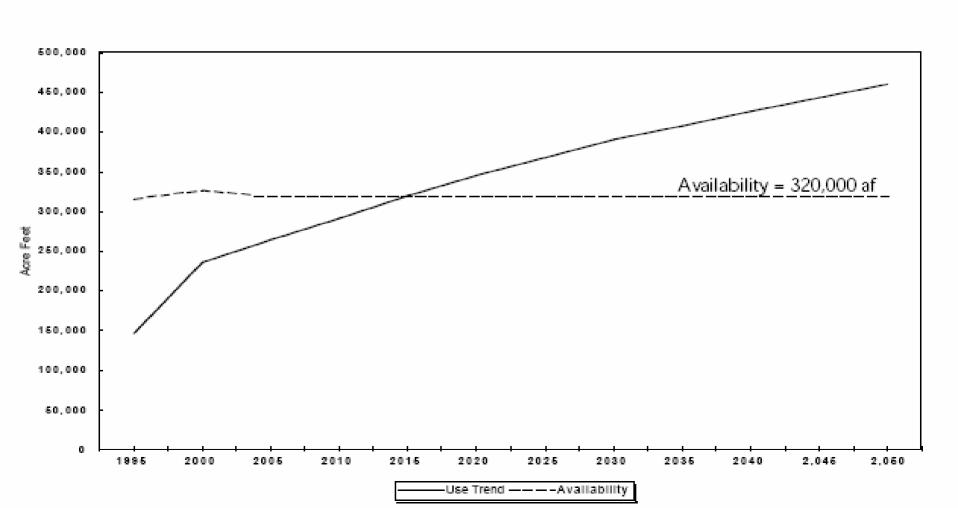
Data Table

Year	Urbanized Population	Square Miles	Persons per Square Mile	Percent Change
1900	26,866	17.2	1,561.9	
1910	36,041	17.4	2,071.3	32.6%
1920	42,096	17.8	2,364.9	14.2%
1930	64,116	24.6	2,602.6	10.1%
1940	106,132	37.2	2,850.2	9.5%
1950	159,879	45.7	3,495.2	22.6%
1960	225,161	67.4	3,343.1	-4.4%
1970	303,933	98.2	3,093.8	-7.5%
1980	417,491	153.7	2,715.6	-12.2%
1990	562,008	280.1	2,006.5	-26.1%

SOURCE: US Census Bureau and The Demographics and Forecasting Group, City of Austin.

ATS Study Area Forecast Water Use and Availability

Chart 1



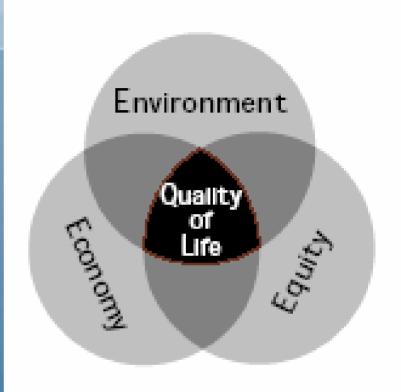
KEY CONCLUSION:
Central Texas Problems
are regional in nature
and interdependent

SOLUTION:

Sustainable

Communities Initiative

- Education
- Collaboration
 - Innovation



Sustainability requires regional cooperation

Barriers to Regional Collaboration

- Political fragmentation
- Lack of <u>continuity in dialogue</u> fits and starts
- Lack of <u>safe harbor</u> for diverse voices to engage each other constructively
- Fear of regional government
- Inability to <u>recognize shared</u> <u>concerns</u> and interdependence of lasting solutions
- Lack of <u>resources and authority</u>





PRIMARY OBJECTIVES:

- 1. Help the community see where <u>opportunity</u> is calling;
- 2. Engage committed people to advance these issues in positive directions;
- 3. Stimulate the <u>inclusion</u> of diverse opinions concerning how we should move forward; and
- 4. Serve as a reminder of the interdependence of the economy, the environment, and social equity when we make important community decisions for present and future generations

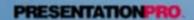
<u>December 1996 – Founders Decision</u> – Roger Duncan, PCESD COA, Dr. Bob Paterson UT-Austin, Dr. Patricia Hays (VP Seton Health Network) -- 2 YR COMMITMENT

- 1. Funding (Roger-COA)
- 2. Technical Support (Bob-UT Austin)
- 3. Networking Champion (Pat-Seton)

1997 - Board and Community Education Effort

Training Session w/EPA contracted SI consultant Maureen Hart.

3 Major Conferences, Professional Training and Speaker Series to raise the dialogue on Sustainability...



Selecting Indicators

- Selection Criteria Considered:
 - Maclaren's 8 sustainability indicators traits
 - US Interagency Working Group on Sustainable Development Indicators
 - -Bellagio Principles
 - -Hart Data Systems Checklist
 - Natural Step Four System Conditions



Local Sustainability Innovators

- Feb 28th Thompson Conference Center
 - City of Tucson Sustainable
 Communities Program
 - City of Santa Monica SustainableCity Program
 - Chattanooga Institute for Sustainability
 - National Smart Growth Network
 - Interactive Regional Panel on Sustainability for Central Texas



Design and Planning Professions

- Planning Tools for Sustainability
 Professional Development
 Program
 - -Polestar Tellus Institute
 - -Index Criterion Inc.
 - Ecological Footprint Analysis ---Richardson
 - -Smart Places GIS -- CIESIN



Winter/Spring 1998 - Initial Advisory Board

2/3rds of 50 person Advisory Board from Travis County

1/3rd each from Williamson and Hays counties

1/3rd members representing each of "the three Es"—sought representation from diverse ethnic, age, and interest groups

Summer 1998 - Advisory Board Meetings

Created a smaller Executive Committee.

More training and dialogue on lessons from the field

Preliminary work plan and schedule

Thumbs Up! **Preliminary Mission Statement and Objectives**

Winter/Spring 1999 - Community Outreach

Community input survey priority issues (Austin American-Statesman and separately distributed in Spanish language press).

> **Statistical Sample and Access Survey** Advisory Board Fans Out - Workshops.



June 1999 - Indicators Selection Forum

80 Community leaders from the entire region and the three Es participate in the process of selecting the potential list of final issues for indicator

Identify: IDEAL STATE and POSSIBLE MEASURES

Evaluate: accurate, timely, understandable and cost efficient

Summer - Fall 1999 - Revision of Initial Indicators

Winter 2000 - Data Collection

March 2000 - First Sustainability Indicators Project

The first SIP Report was published and distributed.



Cross Section of SIP Measures

Our Workforce/Our Economy cont.

Diversity of Industries42

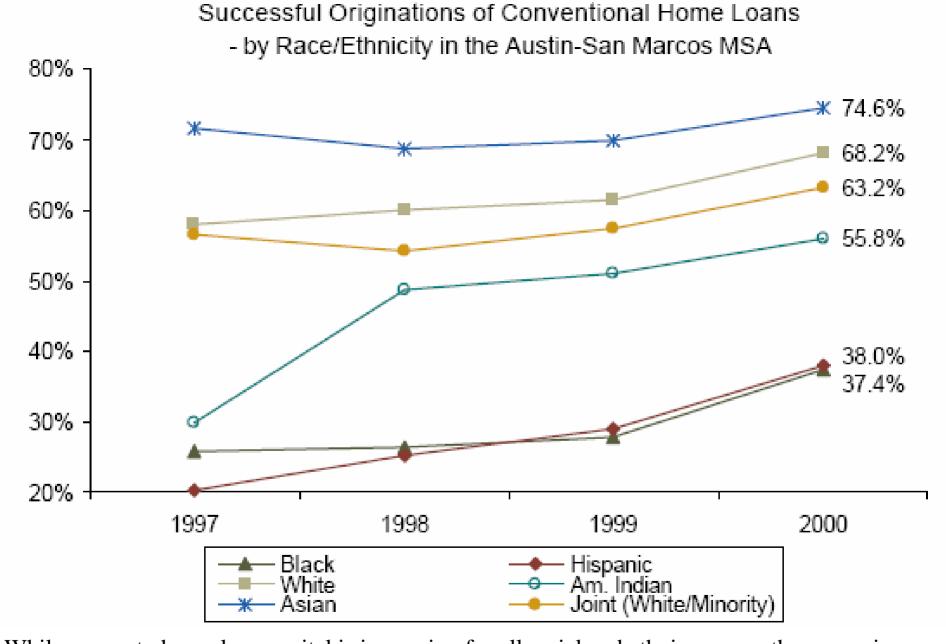
Safe Families14	Diversity of Employers	43
Equity in Law Enforcement15	Technological Innovation	
English Literacy16		
Equity in Access to Capital 17	Our Health/Our Environment	
Academic Performance18	Individual Health Status	46
Percent Passing 2001 TAAS19	Physical and Mental Health	47
School Quality20	Health Insurance Coverage	48
Equity in Education21	Air Quality	49
Diversity in Elected Leadership22	Hazardous Materials	
Participation in the Arts23	Solid Waste	
Philanthropy and Volunteerism 24	Water Consumption	52
Access to Child Care25	Water Quality	53
Quality of Child Care26	Energy Use	54
Child Care - Licensed and Accredited 27		
Civic Engagement28	Our Land/Our Infrastructure	
Percent Voter Turnout29	Attractiveness of the Landscape	56
Neighborliness30	Density of New Development	57
	Rural Land	58
Our Workforce/Our Economy	Change in Rural Acreage	59
Affordable Housing, Houses	Publicly-Owned Open Space	60
Number of Affordable Homes Available 33	Publicly-Owned Open Space	61
Affordable Housing, Apartments	Vehicle Miles Traveled	62
Household Income35	Time Spent Commuting	63

Our Community/Our Children

Community Safety......12

SOCIAL EQUITY INDICATORS Home Loan Capital

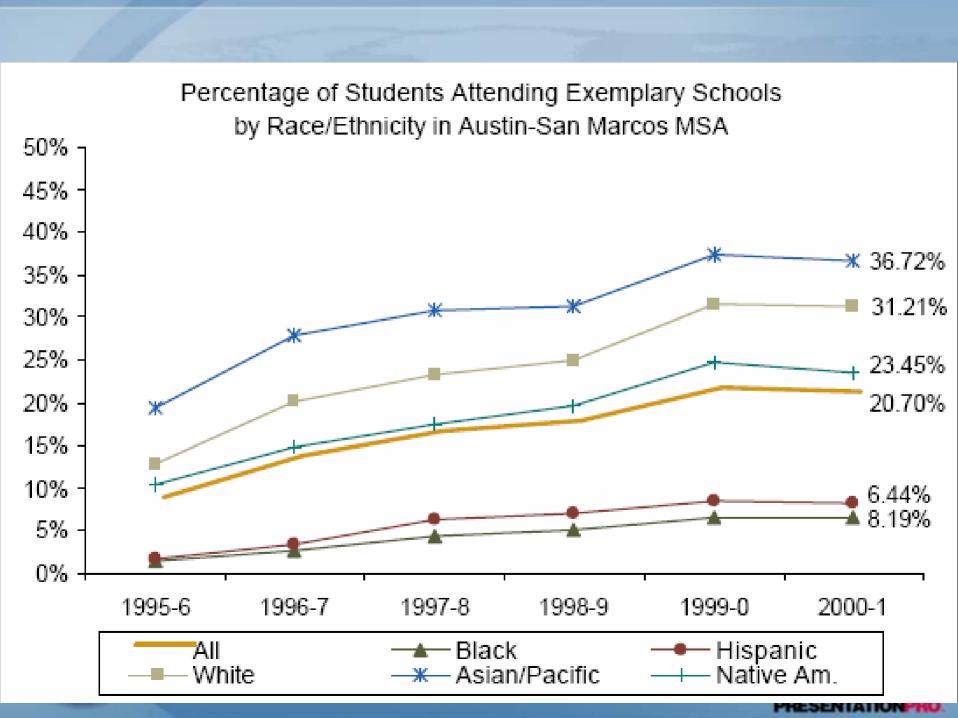
- Current State
 - Home loan approval rates for African-Americans and Hispanics are significantly lower than for other ethnicities.
- Ideal State
 - All Central Texans have equal access to justice, education, and economic advancement without regard to race/ethnicity.



While access to home loan capital is increasing for all racial and ethnic groups, there remains a significant disparity among particular racial groups, some of which might correspond to disparity in income levels.

SOCIAL EQUITY INDICATORS Education

- Current State
 - Three times as many White and Asian students attend Exemplary schools as African-American and Hispanic students.
- Ideal State
 - All Central Texans have equal access
 to justice, education, and economic advancement without regard to race/ethnicity.



Fall 2000 - Revision of Challenging Indicators

SIP is adopted by Austin Community College.

Several indicators in the first report had data problems preventing them from being high quality indicators; some were revised accordingly.

April 2001 - Second SIP Report Published

The second SIP Report was published and distributed.

Summer 2001 - First Evolution

Release of initial Census 2000 data provided a detailed picture of our changing region. The SIP area was expanded to include **Bastrop and Caldwell Counties**, bringing the SIP in line with the Austin-San Marcos MSA.

May 2002- Third SIP Report Published

Data collection, despite the larger area, was easier with the availability of Census 2000 data and the ever increasing amount of data publicly available online. The third SIP Report was published and distributed.

2002 Report

Lessons Learned?

- EDUCATION IS CRITICAL
- PUBLIC INVOLVEMENT AT MULTIPLE LEVELS VIA MULTIPLE CHANNELS IS CRITICAL
- AGREE ON <u>VISION AND OBJECTIVES</u> EARLY TO KEEP FOCUSED
- MAKE TIME COMMITMENTS AND STICK TO THEM
- KEEP STAKEHOLDER PROCESS OPEN AND EVOLVING
- KEEP DECISION MAKERS IN THE LOOP
- THINK ABOUT FISCAL SUSTAINABILITY EARLY
- BE READY TO RE_VISION AS NEEDED
- DON'T GET HUNG UP ON FRAMES
 - -- PRINCIPLES CAN BE EMBEDDED

IN PROCESS AND PRODUCT ACTION v. REPORTING





What impacts can be associated with the effort?

Though the report doesn't offer any solutions, its release should kick start discussions about mass transit, the lack of low and moderately priced housing near jobs, and scarcity of parks in Communities with lots of children and teenagers. The report's benefit to Central Texas will only be realized if we acknowledge that our communities are connected and that the best solutions are those that Focus regionally.





IMPACTS ARE SUBTLE & GRADUAL....

POLITICAL INTELLECTUAL AND SOCIAL CAPITAL

NEXT STEPS...

- RE_VISION AND OFFER CHOICES
 - NEW PLAYERS NEW ENERGY
- FEEDBACK LOOP FOR ENVISION CENTRAL TEXAS REGIONAL PLAN
- INSTITUTIONAL FUTURE
 - 501 3(C)
 - UT CSD Memorandum of Understanding
 - COG
 - Endowment development





YOUR IDEAS * OUR REGION'S FUTURE





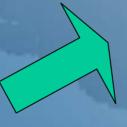




Scenario Approach

Today's Choices Affect Our Future













Develop a Range of Scenarios

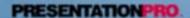






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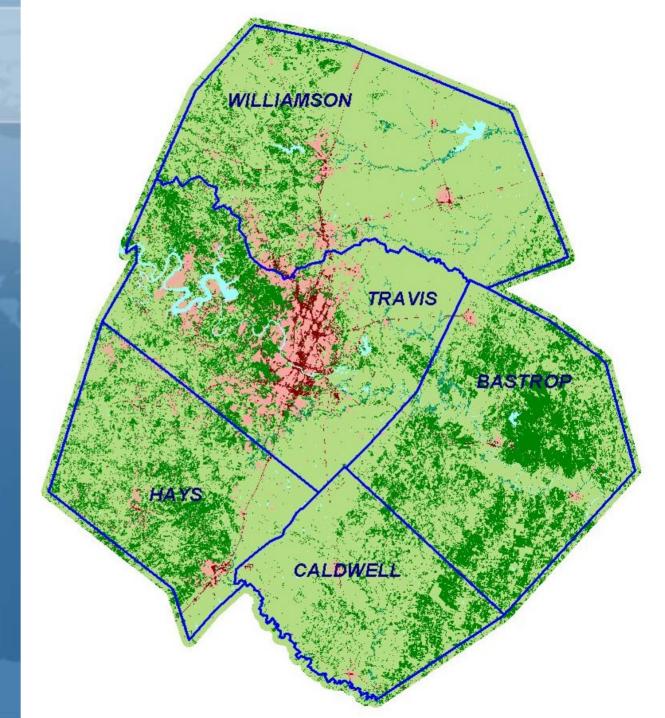
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A Vision for Central Texas

The answers of tomorrow will be determined by the choices of today.

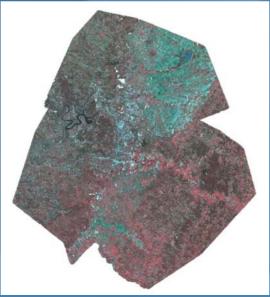




What will Central Texas look like from the air?











What will Central Texas look like from the ground?









What will daily life be like?



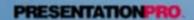












The Outstanding Features of the Central Texas region

- An effective transportation system
- An environment that is beloved and protected
- An economy that is dynamic and diverse
- A variety of housing choices
- Actions that demonstrate an understanding that social equity and racial harmony are important values
- The protection and enhancement of our neighborhoods, towns, rural areas, historic sites
- Region-wide understanding and the spirit that our fortunes are tied together

TRANSPORTATION





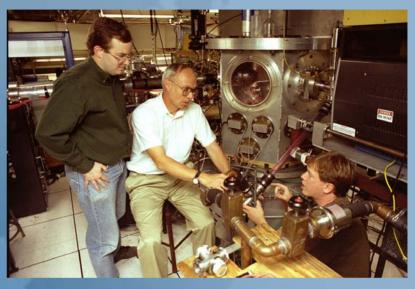


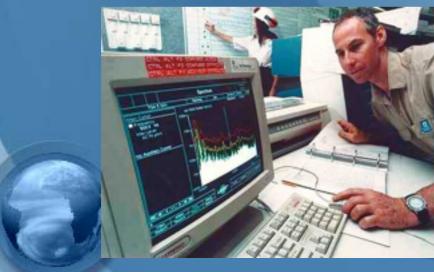




ECONOMY









HOUSING







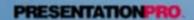












SOCIAL EQUITY









Listening to the People

ECT has provided five primary opportunities for public input and guidance:

- Two focus group (May 2002)
- Telephone survey of 750 respondents (July 2002)
- Seven planning workshops 1,200 individuals participated (September/October 2002)
- Six Community Test Site Workshops (March/April 2003)

Public feedback survey (Fall 2003) over 5000 responses

Public Workshops



PRESENTATIONPRO

The Regional Vision Survey



What if a Million More People Lived in Central Texas?

Help Us Prepare. Answer the Survey Inside.



Fifteen Minutes Can Help Shape Your Future.

You can complete the Regional Vision Survey on pages 7 and 8 in just a few minutes, and your feedback about possible growth scenarios and other related issues can help create a meaningful vision for Central Texas' future. Considering our population may



double within the next 20 to 40 years, Central Texans must make some tough decisions to ensure that future growth occurs sensibly. Critical issues, such as how and where land is developed for housing and jobs, the types of homes we live in, how we travel around the

region and how we treat our environment, are all connected. Each decision can affect many different aspects of our region's future.

Please take a few minutes to review the material in this packet and mail your survey responses by October 26, or complete the survey online at www.envisioncentraltexas.org.

This is your chance to provide input about growth in our region. Don't let the future take shape without you.

Learn More About the Four Growth Scenarios

- Watch one of these special broadcasts about Envision Central Texas:

 * Austin Now on KLRU-TY 9 at noon and 9 p.m., Oct. 10
 and 5 p.m., Oct. 12 and on KLRU-TOO at 8 p.m., Oct. 16

 * News 8 Town Hall Meeting on Oct. 15 at 7 p.m. and
 10:30 p.m. and Oct. 16 at noon.
- Visit www.envisioncentraltexas.org or call us at (512) 916-6037 to schedule a speaker for your group.

What Is Envision Central Texas?

Envision Central Texas is a nonprofit organization composed of concerned citizens from Bastrop, Caldwell, Hays, Travis and Williamson counties. The Board of Directors represents the business community, environmentalists, social equity organizations, neighborhoods and policy makers, and shares the common

goal of addressing growth by considering the interests of the region's existing and future citizens. Our values are based on a set of guiding principles established by the Board of



Directors that are available on our Web site at www.envisioncentraltexas.org/resources.php. The organization has no regulatory powers and does not seek to impose a plan on the region or its local governments. Instead, Envision Central Texas' mission is to work in cooperative partnership with all artitles and individuals to help guide the region toward a common vision.

Complete the Regional Vision Survey on pages 7 and 8 or participate online at www.envisioncentraltexas.org.

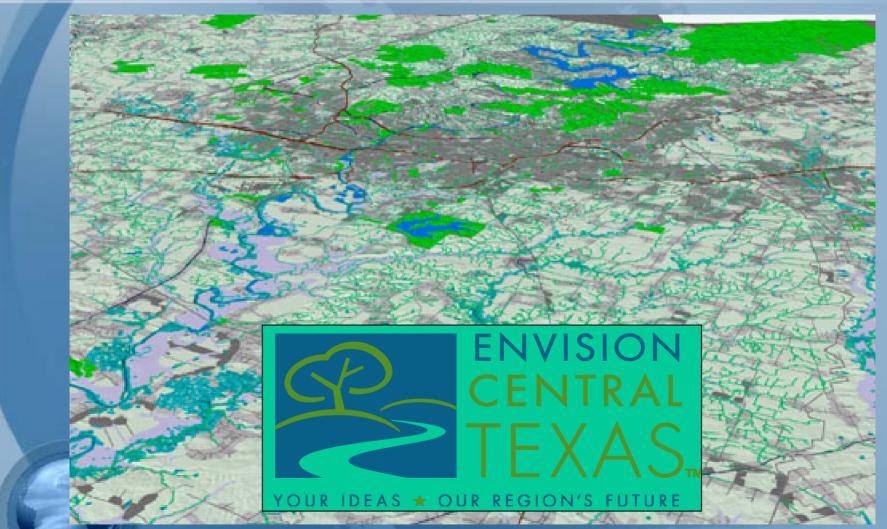
What the People Said

- Call for change in how growth is managed
- More choices

Continued involvement



Envision Central Texas AND SIP



Visit the ECT website www.envisioncentraltexas.org

INDICATORS

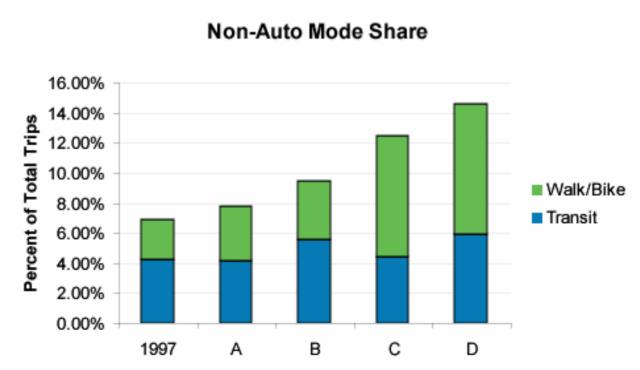
- Indicators compare the variety of consequences associated with each Scenario's development patterns.
- They illustrate the trade-offs Central Texans must make in choosing the direction of future growth in their region.
- Provide a means to track progress toward a preferred future



TRANSPORTATION

Travel Mode Share

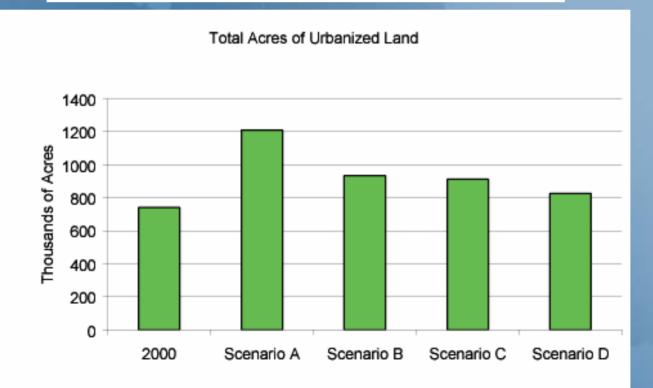
Mode Share							
		1997	A	В	C	D	
Region	Transit	4.28%	4.14%	5.58%	4.43%	5.89%	
	Walk/Bike	2.65%	3.68%	3.85%	8.02%	8.69%	
Austin Urbanized	Transit	4.88%	6.58%	8.65%	6.43%	8.87%	
Area	Walk/Bike	3.16%	5.46%	4.78%	9.65%	9.77%	





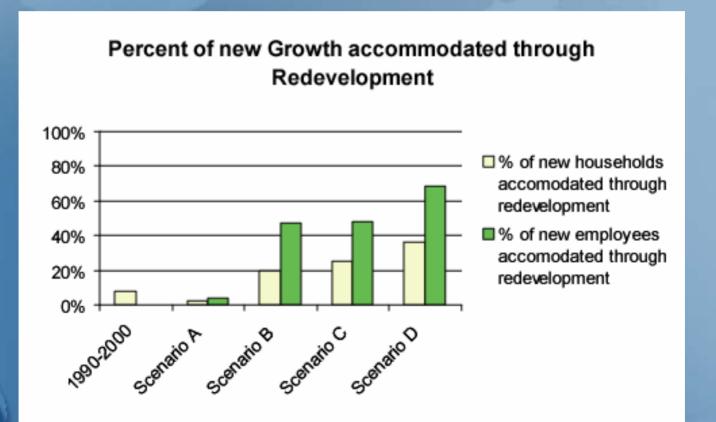
LAND USE

Indicator	Total Urbanized Acres	Incremental Acres
2000	740,563	-
Scenario A	1,208,841	468,278
Scenario B	932,982	192,418
Scenario C	911,340	170,777
Scenario D	825,346	84,783

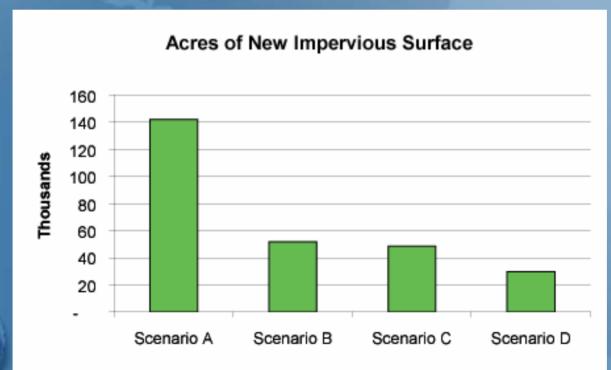




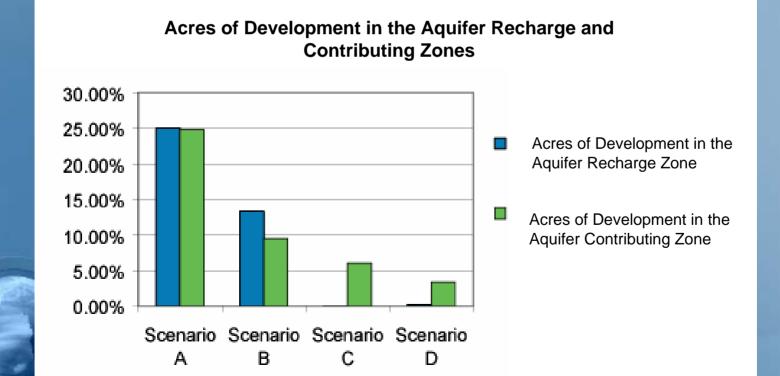
LAND USE

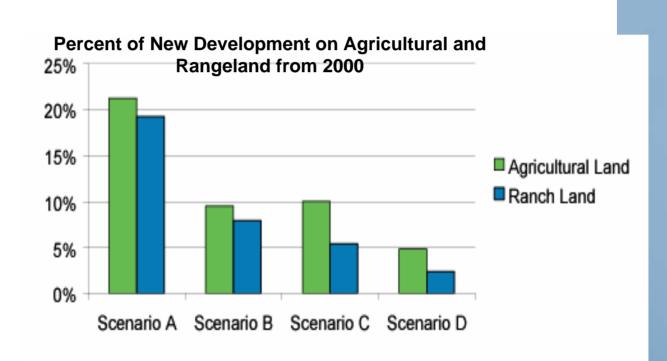


Acres of new impervious surface				
Scenario A	141,986			
Scenario B	51,733			
Scenario C	48,549			
Scenario D	29,591			

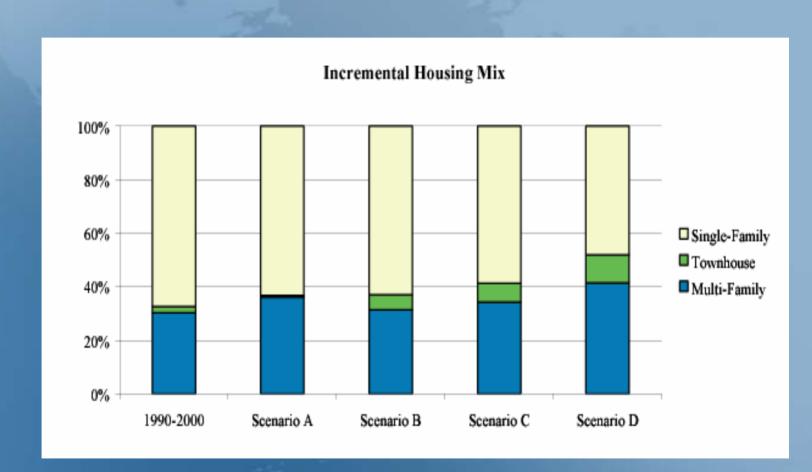


	Development in the	% Loss from	development in the	% Loss from
	Aquifer Recharge Zone	2000 Totals	Contributing Zones	2000 Totals
Scenario A	36,258	25.03%	126,261	24,82%
Scenario B	19,300	13.32%	48,412	9,52%
Scenario C	53	0.04%	30,951	6.08%
Scenario D	397	0.27%	17,326	3.41%





HOUSING



Conclusions

- Regional Sustainability Indicators can be an important capacity building process
- May need to mature into an action oriented effort
- Needs diligent champions
- Needs institutional capacity
- Needs to consider nesting
- Can be supportive of the WEAK E

